KLABAN, J.; SIMONIK, S.; SEDNARIK, M.

Control of solidification of steel castings with chills. Prace p. 9. (SLEVARENSTVI, Vol. 5, No. 8, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 12, Dec 1957. Uncl.

8/137/62/000/011/035/04 A006/A101

AUTHORS:

Bieber, Boleslav, Klaban, Jiří, Václavinek, Jiří, Večeřa, Zdeněk

TITLE:

A method of protecting the surfaces of molten iron alloys against

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 120, abstract

111787 P (Czechosl. Patent no. 99138 of March 15, 1961)

TEXT: The method of protecting molten Pe-alloy surfaces against oxidation consists in that low-melting B and (or) P compounds are introduced into the melt, and form on its surface a protective cover in which air-02 is dissolved. Chemically neutral, low-melting substances, such as NaCl or CaCl2, may be added to the compounds to be introduced in amounts assuring a > 4% content of B or P compounds in the mixture. An approximate composition of the mixture is (in %) B203 20,

V. Levinson

[Abstracter's note: Complete translation]

Card 1/1

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35716

2/034/62/000/004/002/005

E073/E535

18.8300 AUTHOR:

Klaban, J., Engineer

TITLE:

Corrosion- and abrasion-resistant alloy for casting. Patent application Class 18d, 2/30, PV 4824-61,

August 5, 1961

PERIODICAL: Hutnické listy, no.4, 1962, 293

Alloys containing 0.3 - 2.5% C, 8 - 20% Si, 0.3 -2.0% Mn, maximum 0.2% P and maximum 0.10% S and possibly also Mo, W, Co, Cr or Ni up to a maximum of 7%, with Fe forming the remainder, have the disadvantage that their structure is unfavourable from the point of view of resistance to corrosion. The subject matter of the invention is the addition of 0.01 - 0.3% Ce to these alloys, so that graphite is rejected in formations which are mutually isolated by silicoferrite. thereby minimising the unfavourable effect of graphite; if the graphite is present in this form, failure of the alloy along graphite lamellae is prevented.

Abstractor's note: Complete translation.

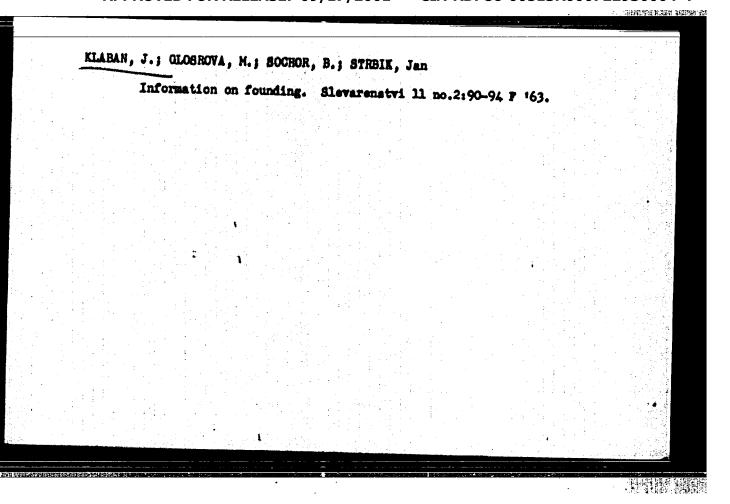
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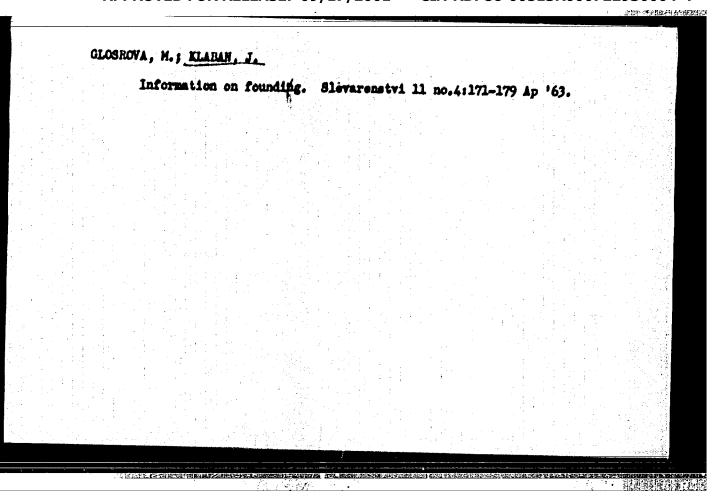
New governmental standard for classification of graphite and carbon in malleable cast iron. Slevarenstvi 10 no.1:38 Ja '62.

SIROKICH, J.; SOCHOR, B.; KIABAN, J.; STRBIK, Jan
Informations on founding. Slevarenstvi 10 no.8:321-323
Ag '62.

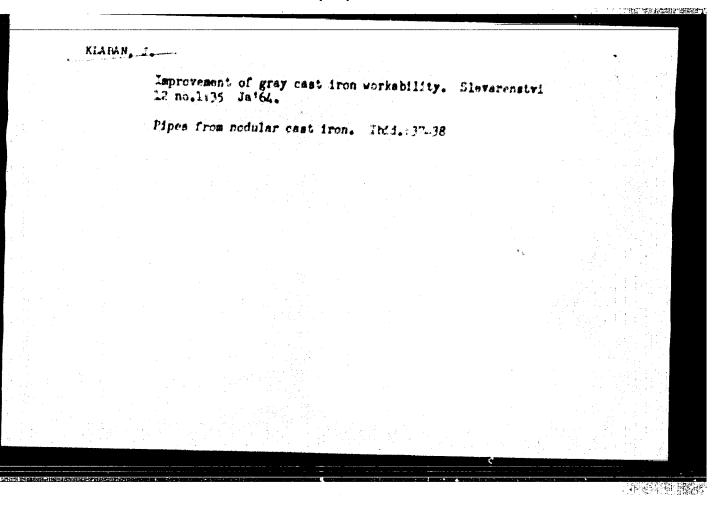
SIROKICH, J.; OLLYFRIUS, V.; KIABIN, J.; HOLOUS, T.

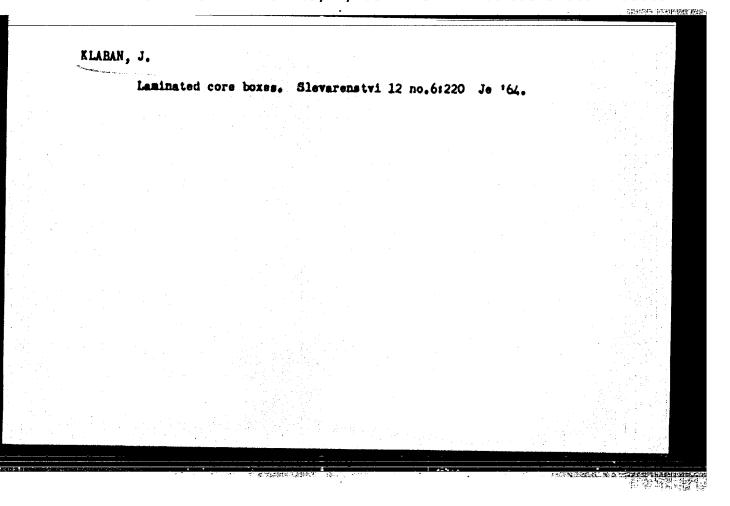
Infernation on founding. Slevarenstvi 10 no.12:509-513 D 162.





L 62725-65 EMP(z)/EMP(h)/EWA(d)/EMP(t) JD	
ACCESSION NR: AP5021465 CZ/0034/64/000/011/08	34/0834
AUTHOR: Klaben, J. (Engineer)	11
TITLE: Grey cast iron with perlitic structure	6
SOURCE: Hutnicke listy, no. 11, 1964, 834	
TOPIC TAGS: chemical composition, cast iron	
Abstract: The article describes Czechoslovak Patent Application Class 18d, 1/20, PV 1465-63, dated 15 March 1963. The results in a pure perlitic structure of the consting, with on traces of free ferrite, under conditions when ordinary grey crystallizes with big amounts of free ferrite. The describe iron contains 2.5 to 4.2% C, 0.8 to 3.5% Si, 0.3 to 1.5% Mn, Max. 1.0% P, max 0.2% S. A total of 3.0% of Ni, Cr, V, Mo, and Cn may be present; balance is Fe. The basis of the invetion is that 0.015 to 0.1% of Sb is incorporated into the described alloy.	ho lly iron
ASSOCIATION: none SUBMITTED: 15Mar63 ENCL: 00 SUB CODE: NO REP SOV: 000 COTHER: 000 JPRS	HK
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L 31474-66 EMP(j) AM

ACC NR: AP6023166

SOURCE CODE: CZ/0008/65/000/011/1350/1353

AUTHOR: Maban, Jiri; Haeberle, Kurt

ORG: Research Institute for Synthetic Resins and Lacquers, Pardubice (Vyzkumny ustav syntetickych pryskyric a laku)

TITLE: Electromagnetic vibrator for milling and homogenizing substances at low temperatures, and its use in infrared spectroscopy

SOURCE: Chemicke listy, no. 11, 1965, 1350-1353

TOPIC TAGS: IR spectroscopy, homogenization

ABSTRACT: The apparatus is designed for milling and homogenization of substances that can be treated only at very low temperatures and cannot be reduced in size at laboratory temperatures. This makes it possible to use infrared spectroscopy to investigate substances whose spectra could otherwise not be measured, or where the results would be imperfect or irreproducible. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 16 / SUBM DATE: 10Nov64 / ORIG REF: 004 / OTH REF: 001

Card 1/1 mc

KAPPBOYEN FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722930004-

Allentin Carbonian CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Carbohydrates and Refinement.

Abs Jour Ref Zhur-Khim., No 13, 1958, 44772.

Author : Klaben Syntonius market of the contract of

Inst

Title

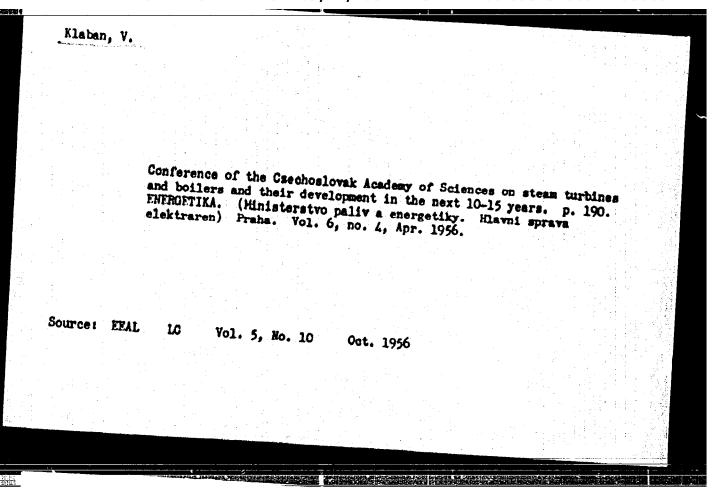
: Performance of Defecation-Carbonation Units During

the 1955-56 Production Season.

Orig Pub: Listy cukrovarn., 1956, 72, No 11, 253-255.

Abstract: Data are presented concerning juice purification efficiency (PE) and yield of molasses at Czechoslovak sugar refineries, depending upon operation procedures. Average PE is 40.416. Highest PE (43.73%) was attained on two-stage addition of line in defecation and fractional carbonation according

Card : 1/2

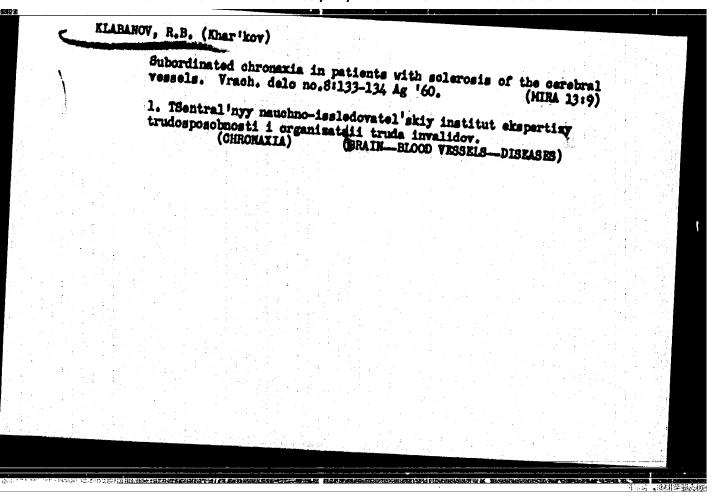


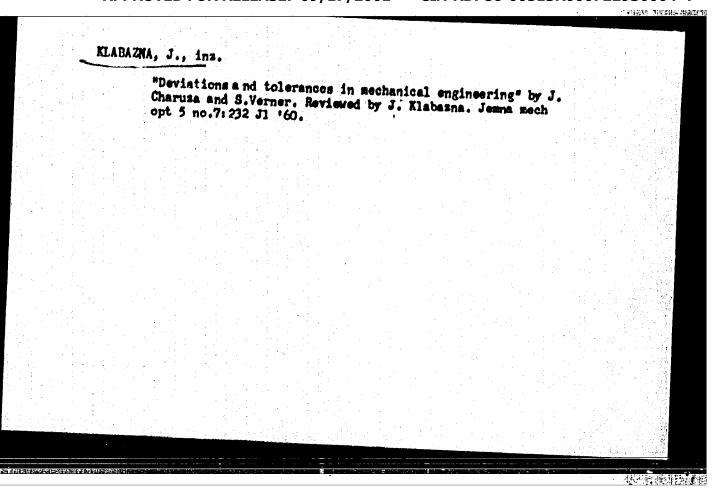
KLABAN, V.

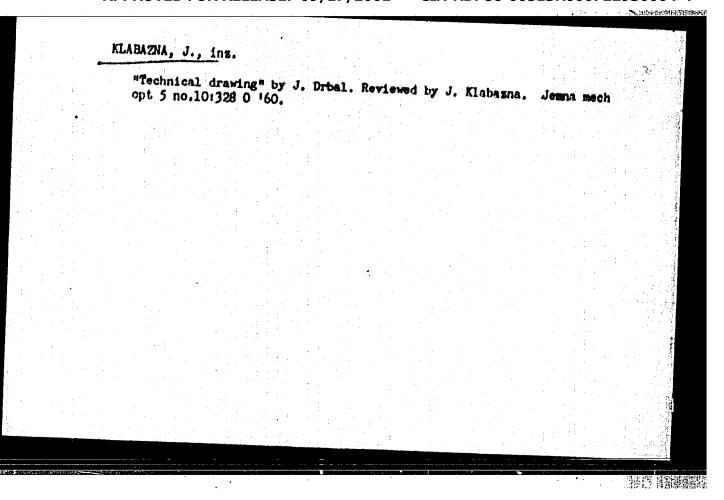
Soviet once-through boilers. p. 269.

EMERGETIKA. Praha, Csechoslovakia, Vol. 9, no. 6, June 1959.

Monthly list of East European Accessions (EEAI) IC, Vol. 8, No. 10, Unol.







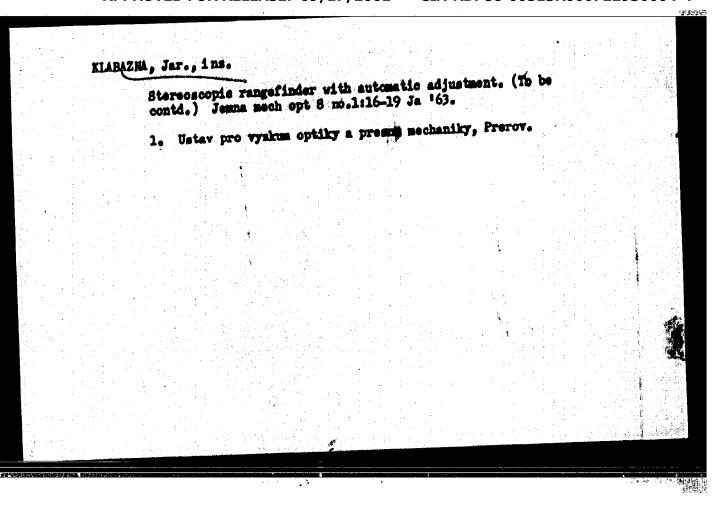
KLABAZNA, J., ins. "Machinery drawing" by V.Cornak. Reviewed by J.Klabasna. Jenna mech opt 6 no.1:35 Ja 161.

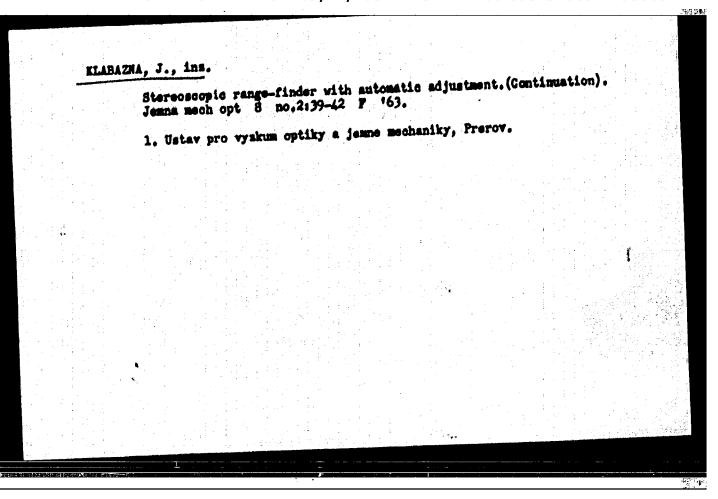
Production errors in making optical prisms and calculation of their tolerances. Jemna mech cpt 6 no. 6:165-168. Jr '61 1. Ustav pro vyskum optiky s jemne mechaniky, Frerov.

Froduction errors in making optical prisms and calculation of their tolerances. (Conclusion). Jemms mech tech 6 no. 7:204-207. Jl '61 1. Ustav pro vyskum optiky a jemme mechaniky, Prerov

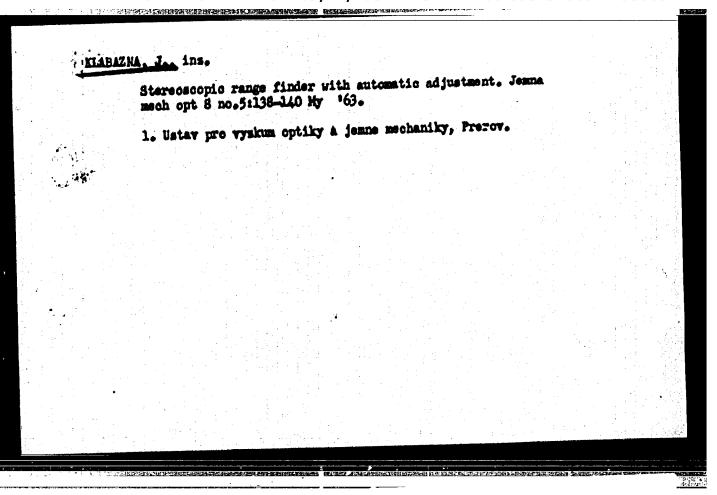
KLABAZN	J. in			
	Tolerance calculation of opti 4-9 Ja 162.	cal prisms. Jemna mech o	pt 7 no.1:	
	l. Ustav pro vyskum optiky a	jemne mechaniky, Prerov.		
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	, J., ins.						
	Tolerance 7 no.2:48-	calculation of 52 F 162.	f optical	prisms.	Jenna 1	mech opt	
	1. Ustav	pro vyskum op	tiky a je	me mecha	niky, P	rerow.	





KLABAZNI	1, J., ins.			
	Stereoscopic rang 8 no.3:83-86 Hr !	efinder with automatic adjusts 63.	ment. Jemna meen	ohe
	1. Ustav pro vysk	num optiky a jemne mechaniky, l	Prerov.	
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KLABAZNA, Jar., ins.

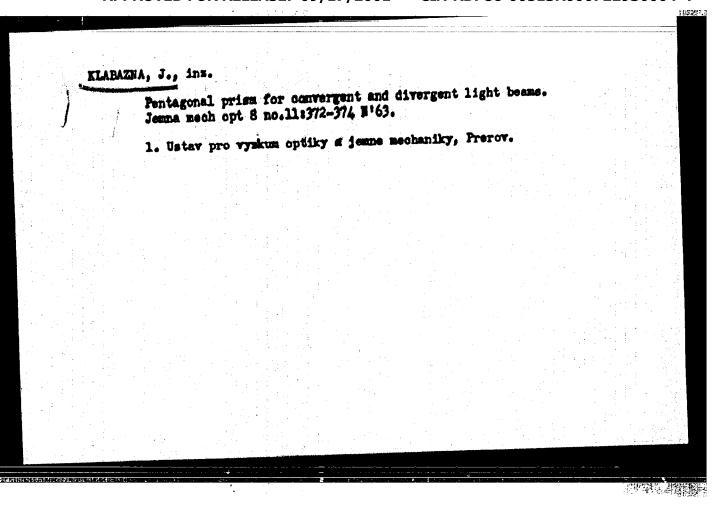
Determination of the light beam diameter for calculation of optical prism dimensions. Jeans mech opt 8 no.7:216-219 J1 '63.

1. Ustav pro vyskum optiky a jemne mechaniky, Prerov.

KLABAZNA, J., ins.

Calculation of dimensions of rotating optical prisms. Jesna mech opt 8 no.78275-276 8'63.

1. Ustav pro vyskum optiky a jemne mechaniky, Prerov.



KLABAZNA, J., ins.

Simple ordinary and roof prisms deflecting the optical axis by the 9H \(\frac{2}{2}90^\text{o}\) angle. Jemma mech opt 9 no.6:174-180 Je '64.

1. Research Institute of Optics and Precision Mechanice, Prerov.

KLAbik, V.

Chamical Products H CZZCHOSLOVAKIA / Chomical Tochnology. and Thoir Application. Chomical and Tochnological Aspects of the Nuclear

Engineering.

Abs Jour: Rof Zhur-Khimiya, No 9, 1959, 31902.

: Plzak, F., Klabik, V. : Not givon. Author

: Extraction of Zirconium by Roduction of Zirconium Inst

Titlo Totrachlorido and by Electrolysis.

Orig Pub: Hutnicko listy, 1958, 13, No 1, 26-33.

Abstract: The method of extraction of ZrCl4 by the chlor-

ination of ZrO2 and the reduction of ZrCl4 to Zr by an Mg powder, and also the mothod of extraction of the Zr powder by the electrolysis of melted KgZrF6, is introduced. Comparative investigations of these methods of Zr extraction from various

kinds of raw materials were conducted. -- I.

Card 1/1

Z/032/61/011/002/008/013 E073/E335

18.1153

AUTHOR: Klabik, V

TITLE: Investigation of the Properties of Titanium and

its Alloys

PERIODICAL: Strojírenství, 1961, Vol. 11, No. 2, p. 153

TEXT: Further properties of commercially-pure titanium were determined and study of the properties of titanium alloys was started with the a-type alloy Ti-5Al-2.5Sn. For pure titanium the influence of annealing and of notches on the mechanical properties was studied primarily. In addition, some technological properties, particularly for sheets, were studied. The basic physical and mechanical properties were determined for titanium alloys. 1960, Prague: SVUMT, V-60-837 (Note: this is a complete translation)

Card 1/1

1 5

18.148

Z/032/62/012/004/004/007 E073/E335

100

AUTHOR:

Klabík, V.

TITLE:

Investigation of the properties of the alloy Ti-5A1-2,

58n

Strojfronstvf, v. 12, no. 4, 1962, 317 PERIODICAL:

The report gives the results of research relating to this alloy, particularly as regards its suitability for manufacturing steam-turbine blades. Data are given on the basic mechanical properties of this alloy at high temperatures, values of the fatigue limit in bending during rotation and for alternating tension-pressure stresses, the results of studies on the notch-sensitivity under stress, structural stability and properties at clevated temperatures and stresses. Of the technological problems data are given on the influence of the conditions of heating prior to forming and the degree of forging on the basic mechanical properties, on the method of effective protection from oxidation, on the possibility of increasing surface hardness by nitriding, etc. Results of defectoscopy investigations made

Card 1/2

Investigation of

Z/032/62/012/004/004/007 E073/E335

on blades and results of investigation of the properties and the structure at individual points of the blade are also given: The use of a few tried-out methods for utilising scrap from the machining of titanium and its alloys is proposed in the

Research report Z-61-1002, SVUMT, Prague, 1961.
[Abstracter's note: this is a complete translation.]

Card 2/2

KLABOCH, L., ins.; DUFEK, Jaroslav, ins.; HAJEK, E., doc., ins.; REZNICEK,
I;, ins.; ROD, F., ins.; DRDA, J., ins.; MATOUSEK, B., ins.;
KOUSAL, P., ins.; MANDA, V.; CAIS, O., ins.; NOVAK, S.; URBAN, S.;
HANKE, M., ins.; VOKURKA, V., ins.; FOGL, J., ins.; HROMIR, M.,
ins.; SOLIN, J., prof., ins.; SIEZAK, A., ins.; TITLBACH, Z., ins.;
DREXLER, J., ins.; HORNA, O., ins.; KUPEC, J., ins.

Discussion on tension try. 2pravodaj VZLU no.2137-46, 69-80

1. Vyskumny a skusebni letecky ustaw (for Dufek, Resnicek, Manda, Cels, Drexler and Kupec) 2. Statni vyskumny ustav tepelne techniky (for Klaboch, Rôd, Drda, Matousek, Titlbach). 3. Ceske vysoke useni technicke (for Hajek, Solin). 4. Ustav pro vyskum motorovych vosidel (for Hanke, Vokurka, Fogl, Hromir). 5. Vyskumny ustav matematickych stroju (for Horna). 6. Moravan, n.p., Otrokovice (for Kousal). 6. Mikrotechna, Holesovice (for Novak), 8. Zavody V.I.Lenina (for Urban). 9. Svermovy savody, Vyskumny ustav (for Slesak).

KLABOCH, T.

Measuring the axial force of a steam turbine, and determining its charge caused by blade fouling.

p. 669 (Strojirenstvi. Vol. 7, no. 9, Sept. 1957, Praha, Czechcslovakia)

Fonthly Index of East European Accessions (EEAI) 1C. Vol. 7, no. 2, February 1958

7/032/61/011/005/003/008 E197/E435

AUTHOR:

Klaboch, L., Engineer

TITLE:

Elimination of temperature effects on strain gauges

PERIODICAL: Strojfrenstvf, 1961, Vol.11, No.5, pp.370-373

The author suggests a method for compensating for the temperature effect on strain gauges. One of the factors which easily disturbs the accuracy and reliability of strain measurement by resistance gauges is temperature, in particular high temperature, the effects being the change in the calibration factor, softening of the adhesive and consequent creep, and reduction of the electrical insulation resistance of the adhesive. To determine the effect, experiments were carried out at SVUTT with two types of strain gauges, a paper based gauge made by Mikrotechna and a gauge embedded in synthetic material made by Huggenberger, The first was found usable up to 125°C; the second up to 50°C. The author then discusses experiences with field tests on large vessels where temperature differences and variations were troublesome. At SVUTT, tests were made with temperature compensated gauges using an additional loop, made of copper wire of 0.03 mm and 79 mm long for strain gauge C 120 and

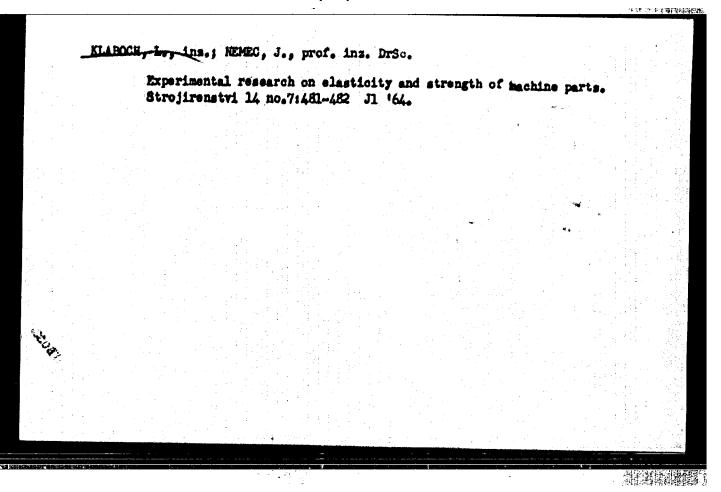
代,并不能翻翻。

Elimination of temperature ... Z/032/61/011/005/003/008 E197/E435

59 mm long for strain gauge M 120. The addition of loops had no effect on the calibration factor but eliminated temperature effects between 20 and 100°C. There are 7 figures and 4 Sovietbloc references.

ASSOCIATION: SVUTT, Prague

Card 2/2



KLHOVKOV A G

USER/Cultivated Plants - Fruits. Berries.

Abs Jour : Ref Zhur Biol., No 18, 1958, 82481

Author ; Klabukov, A.G.

Inst : Sverdlovsk Agriculture Instit te

Title : Characteristics of Grafting Fruit Plants in Ural

Orig Pub : Tr. Sverdl. s.-kh. in-ta, 1957, 1, 93-101

Abstract: Under the conditions found in the Urals a large precentage of grafted flower buds is destroyed by frost in winter. It is recommended to graft two eyes on a plant. For grafting it is recommended to use the growth buds located on the lower part of the shoot. In taking the cuttings of the stone fruit species it is necessary to determine first the characteristics of the distribution of the flower buds on the shoots and not take them. In apple tree, a small percentage of grafted flower buds perishes

Card 1/2

KLHBUKIV A G

USSR / Cultivated Plants. Fruit Trees. Small Fruit Plants. Nut Trees. Tea.

Abs Jour ! Ref Zhur - Biologiya, No 6, 1959, No. 25017

Author

: Klabukov, A. G. : Sverdlovsk Agricultural Institute : Biology of the Flower Bld Devolopment Inst Title:

: Tr. Sverdl. s.-kh. in-ta, 1957, 1, 103-112 Orig Pub

Abstract : The formation of buds on fruit (steppe cherry, black current) and decorative (pilose lilac) plants was studied by the anatomical method in 1946-1954. The transformation of the vegetative-cone cells in the bud into a flower rudiment represents an irreversible qualitative change, which takes place in the phase of the cells local division of the growing point's convexity, long before the

Card 1/4

USSR / Cultivated Plants. Fruit Trees. Small Fruit APPROVEDICADE REMEASEre09/1772001 CIA-RDP86-00513R000722930004-4"

: Ref Zhur - Biologiya, No 6, 1959, No. 25017 Abs Jour

> appearance of tubercles on the vegetative cone. Three principal periods are singled out in the development of flower buds: the preliminary, critical-reversible and differentiation of the flower. The first and third periods are lengthy. After the critical period has been passed, it is no longer possible to affect the formation of the flower buds. Secondary efflorescence is not a proof of premature spring formation of the flower buds in the year of fruit-bearing. It is necessary to differentiate two kinds of secondary efflorescence. The first kind, caused by retardation in the differentiation of the flower buds is designated as one that

Card 2/4

KLAGUKOF A G

USSR/Cultivated Plants - Pruits. Berries.

Abs Jour

: Ref Zhar - Biol., No 12, 1958, 53812

Author

: Klabukov, A.d.

Inst

: Sverdlovsk Agricultural Institute

Title

: Wild-Growing Steppe Cherry

Ori3 Pub : Tr. Sverdl. s.-kh. in-ta, 1957, 1, 113-124

Abstract

: This article describes the biological poculiarities of the wild growing stoppe charry (Carasus fruticesa). An experiment on the reclamation of the wild growing tracts of cherry trees is reported. Methods of propagation and agricultural technique in starting a plantation is recommended. Periodicity of fruit bearing is absent in the steppe cherry. The yiled reaches 30 cvt/ha. --I.K. Fortuntov

Card 1/1

CIA-RDP86-00513R000722930004-4" APPROVED FOR RELEASE: 09/17/2001

82886

8/120/60/000/02/017/052

AUTHORS:

ME192/E382 M. and Popov. Yu.O. Volkov, A.N., Klabukov,

TITLE:

Shutting-off the Photomultipliers by Means of Microsecond Pulses

PERIODICAL:

Pribory i tekhnika eksperimenta, 1960, No. 2,

pp 68 - 71 (USSR)

ABSTRACT:

The experiments with the Soviet photomultipliers, types of FEU-19M and FEU-29, showed that under static conditions they can be completely cut off by applying a voltage of +50 V with respect to the control diaphragm. However, under pulsed conditions the photomultipliers cannot be fully re-opened for a duration of about 15 µs. This is due to the poor conductivity of the photo cathode. Consequently, a method of shutting-off the multipliers by applying suitable voltages to their dynodes was investigated. The shutting-off characteristics of various dynodes were first measured under static conditions. For this purpose a photomultiplier with its crystal was illuminated by a γ-source (Co⁶⁰) and the counting rate of the pulses

produced by the Y-rays was observed at a constant amplifier

Card1/3

82886

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Shutting-off the Photomultipliers by Means of Microsecond Pulses

threshold. The voltage of the control dynode was varied by a potentiometer divider network in such a way that if the gap above the control dynode received a voltage increase of U, the voltage of the lower gap was reduced by U; this simulated the application of a pulse to the dynode. It was found that the best results were obtained if the shutting-off is done simultaneously at the second and sixth dynodes of the system. The shutting-off process under pulsed conditions was investigated by means of a 50-channel time analyser having a channel width of 0.476 µs. The diagram of the generator producing the shutting-off pulses is shown in Figure 3; this also illustrates the voltage divider for the photomultiplier. Figure 4a gives the results of the shutting-off effect of a pulse having an amplitude of 35 V. From this it is seen that FEU-19M and FEU-29 photomultipliers can be controlled by means of comparatively short pulses in such a way that the aftereffects are eliminated in less than 1 µs. A similar shutting-off system was employed by other authors (Ref 5). As regards the Soviet photomultiplier FEU-S it was found

Card2/3

82886 8/120/60/000/02/017/052

Shutting-off the Photomultipliers by Heans of Microsecond Pulses

that they could not be cut off by means of the dynodes. However, this could be achieved simply by applying a voltage of -3 V to the focusing rings. Again a fast operation was possible. The photomultiplier FEU-12 could be shut off by means of the grid, cathode or one of the dynodes. It appeared, however, that the after-effects could not be rapidly eliminated. The authors are indebted to F.L. Shapiro and I.V. Shtranikh for their interest in this work and for valuable advice and also to A.I. Okorokov and Ye.D. Bulatov for testing the multipliers.

There are 4 figures and 4 references, 1 of which is English, 4 Soviet; one of the Soviet references is translated from English.

ASSOCIATION: Fizioheskiy institut AN SSSR (Institute of Physics of the Ac.Sc., USSR)

SUBMITTED: February 9, 1959

Card 3/3

Po-4/Pq-4/Pg-4/Pk-4 IJP(c) BB/GG 8/0058/64/000/004/A029/A030 EWI(d)/EWP(1)/EED-2 ACCESSION NRI AR4039895

AUTHORS: Shtranikh, I. V.; Bochkarev, V. N.; Volkov, A. N.; Klabukov, A. M.

SOURCE: Ref. zh. Fiz., Abs. 4A302

TITLE: Multidimensional TSIRU recording system

CITED SOURCE: Tr. 5-y Nauchno-tekhn, konferentsii po yadern, radioelektronike. T. 2. Ch. 2. M., Gosatomizdat, 1963, 135-143

TOPIC TAGS: digital recording system pulse height analyzer, pulse time analyzer, magnetic drum memory, binary coding

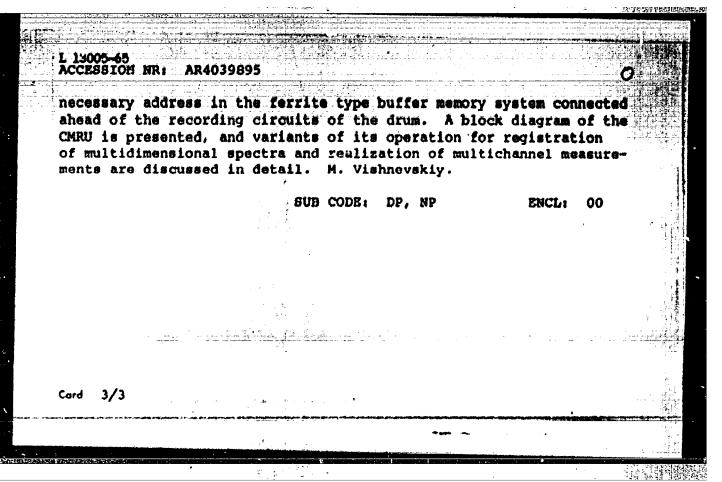
TRANSLATION: Data are reported on the TsIRU centralized measuring and recording unit (CMRU) developed jointly by the Lebedev Institute and by the OIYaI. This system was designed for the registration of four independent 64 x 64 multidimensional spectra with capacity of

Card 1/3

L 13005-45 ACCESSION NR: AR4039895

10,000 pulses per channel, and simultaneous registration of two 256-channel pulse-height and four time spectra, the capacity of each channel also being 10,000 pulses. The CHRU memory block is a magnetic drum device. This magnetic memory contains more than 80 heads and has a peripheral resolution of $\sim 4 \times 10^3$ writing pulses (2.7 pulses per mm of length). The number of drum revolutions is 25 per second. By employing preliminary memorization of the incoming pulses (in code form) and a system for selecting the next necessary address, it is possible to write in each drum sector up to 25 statistically distributed pulses per second. Methods of reducing the dead time of the system during the registration of spectra are discussed. The average recording time can be reduced to 10 usec. The operating speed of the system is ensured by using an "equalization of the statistics" method. One of the features of this system is coding of the incoming parameters in binary form, which is then processed prior to obtaining the final results. Another distinguishing feature is the possibility of preliminary determination of the

Card 2/3



KLABUKOV, G.A., elektromekbanik; SIEORIN, N.T., olektromekhenik

Change in the network of the ZhR-5 transceiver. Avtom.,
telem. i svinz. 9 no.1:40 Ja '65. (MIRA 18:2)

1. Moskovsko-Okruzhnaya distantsiya Moskovskoy dorogi.

KLABUKOV, M. P.

"Organisation of Work to Improve Efficiency in Rayon Communications Offices," Yest. svyasi, No.7, p. 26, 1953

Manager, Kotel'nichskiy Rayon Communications Office, Kirov Oblast'.

Translation No. 513, 27 Apr 56

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KLABUKOV	, M.f.	
USAU/Klad	ILAne const.	
Gent 1/1	F Pub. 132 = 18/20	
Authors Title	I Problems Concerning the productivity of	labor in the regional commité
Periodical	cation bureau	
Abstract	I A narrative report is given concerning productivity and decreasing the cost of	me thode of increasing labor. If communication in rural regions.
Institution		
Submitted		

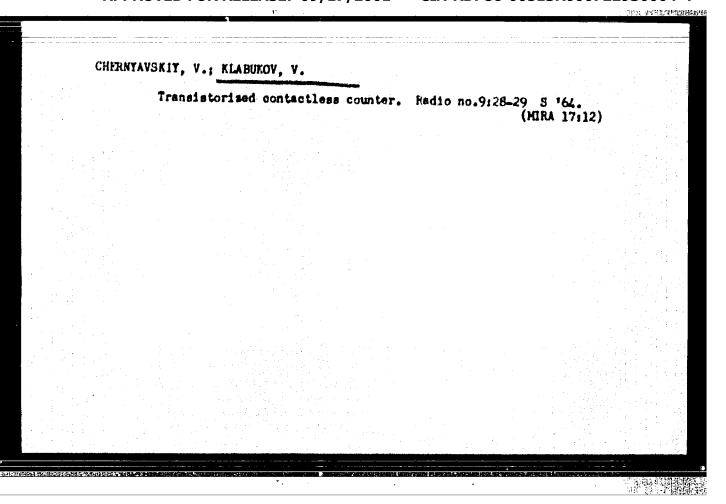
KLARUKOY, P. C.

"The Effect of Repeated Covering of Sows on their Fertilizability, Fertility, and the Quality of Their Offspring." Cand Agr Aci, Leningrad Agricultural Inst. Min Righer Education, Leningrad, 1955. (KL, No 10, Mar 55)

SO: Sum No. 670, 29 Sap 55 - Survey of Scientific and Technical Mssertations Defended at User Higher Educational Institutions (15)

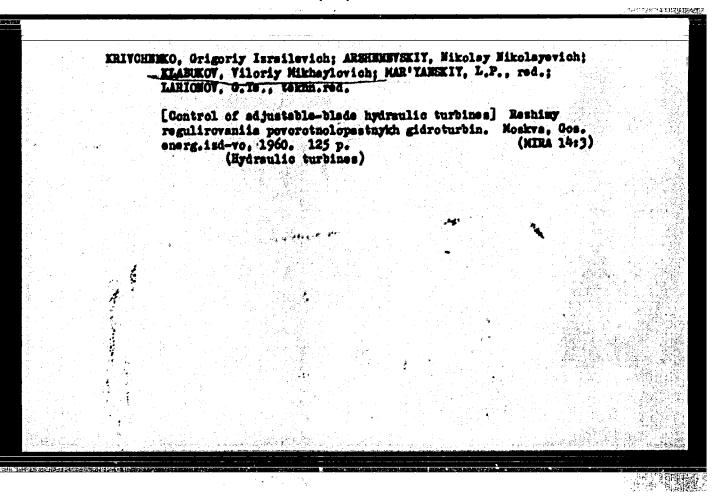
APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722930004-4"

生机构制模



Apparatus and methods for investigating unsteady flows in penstocks at the Mingeohaur Hydroelectric Power Station. Trudy MISI no.16:111-118 '56. (MIMA 11:8)

(Penstocks—Fluid dynamics)



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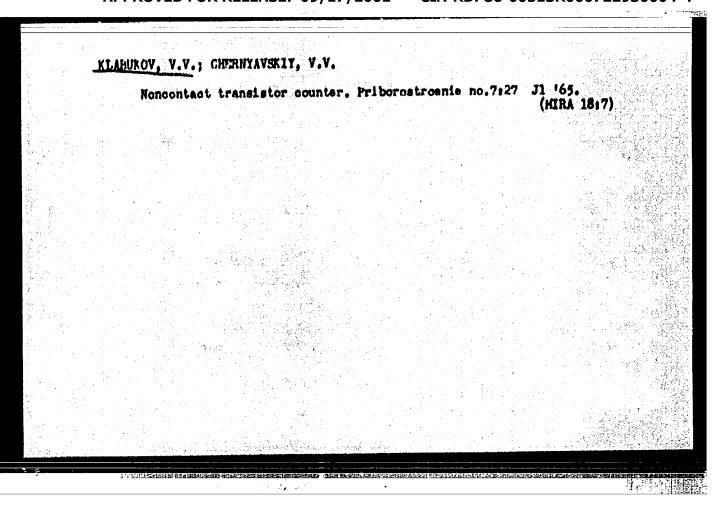
Results of testing the load dropping potential of turtine units at the Irkutsk Hydroelectric Power Station. Shor. trud. MISI no.35: 49-59 *61. (HIRA 14:9) (Hydraulic turbines) (Irkutsk Hydroelectric Power Station)

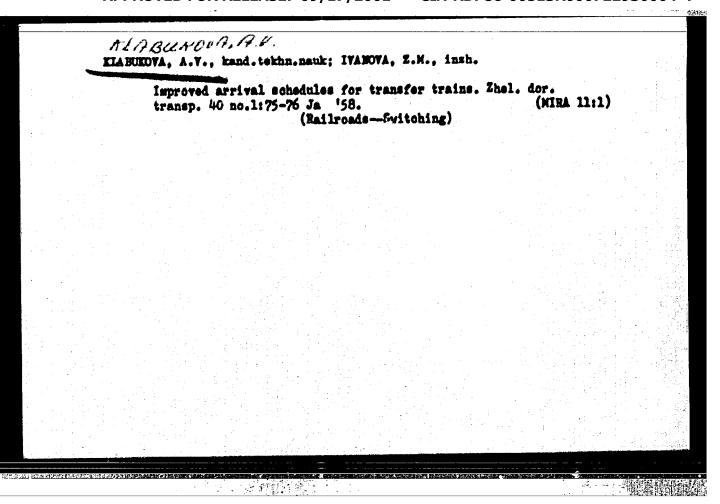
Actual testing of the turbine sets of the Pavlovsk Hydroelectric
Power Station. Oldr. stroi. 33 no.10138-43 0 '62. (MIRA 15:12)
(Pavlovsk Hydroelectric Power Station—Hydraulic turbines—Spating)

CHERNYAVSKIY, V.V., KLABUKOV, V.V.

Contactless transistorized counting device for tires. Kauch. 1 rez. 24 no.2:49-51 F *65. (MIRA 18:4)

1. Proyektno-tekhnologicheskiy i nauchno-issledovatel'skiy institut Verkhne-Volshskogo Soveta narodnogo khozyaystva, Yaroslavl'.





KLABAKOVA, L. 3

16(0):28(2) 9.3 PHASE I BOOK EXPLOITATION

sov/3366

Akademiya nauk SSSR. Vychislitel'nyy tsentr

Vychislitel'naya matematika; sbornik 3 (Mathematics of Computation; Collection of Articles, Nr 3) Moscow, Izd-vo AN SSSR, 1958.
189 p. Errata slip inserted. 5,000 copies printed.

Resp. Ed.: A. A. Abramov, Candidate of Physical and Mathematical Sciences; Ed.: M. V. Yakovkin; Tech. Ed.: T. P. Polenova.

PURPOSE: This book is intended for applied mathematicians, scientists, and engineers whose work involves computation.

COVERAGE: This book contains 9 articles on computational techniques. The subjects considered include: numerical solutions of the kinetic equation for a sphere; approximate method of solving the Hilbert and Poincaré problem; solution of the Laplace equation in a region within the interior of an ellipsoid; calculating the flow around an arbitrary profile and solid of revolution in a

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Mathematics of Computation (Cont.)

SOV/3366

subsonic gas flow (symmetric case); calculating annular supersonic nozzles and diffusers; calculating the lowest characteristic number of Peierls' equation by the Monte Carlo method; study of the oscillation of beams of constant cross section by means of balance type integral equations; calculation of the flow around a circular cylinder with detached shock wave; and new routines for computing finite differences on computers. References accompany each article.

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5

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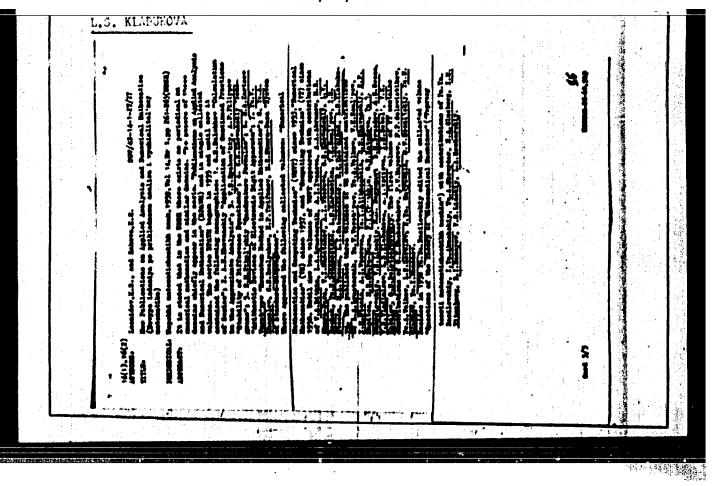
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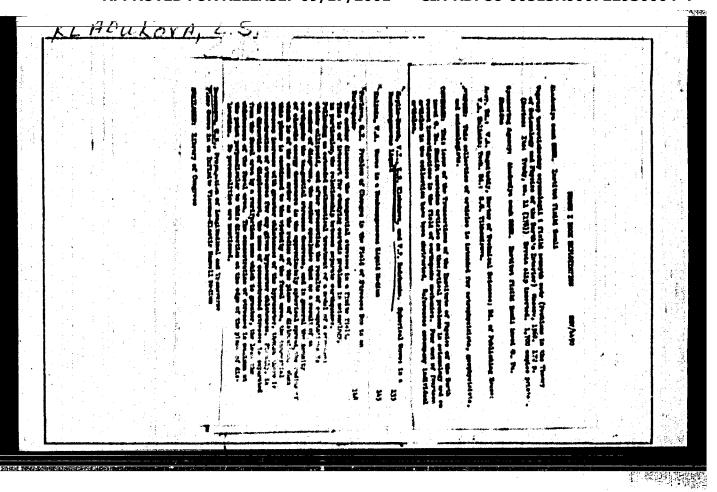
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ENYLIS-BOROK, V.I., KLABUKOVA, L.S., RADCHENKO, V.P.

Spherical waves in an inhomogeneous liquid. Trudy Inst. fis. ses.
no.11:133-142'60.
(Flastic waves)

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722930004-4



33292 8/208/62/002/001/006/016 D299/D303

24, 4300

Klabukova, L.S. (Moscow)

TITLE:

AUTHOR:

On the use of Pourier transforms in solving a diffraction problem

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 2, no. 1, 1962, 89 - 96

TEXT: The diffraction is considered of elastic waves in the exterior of a simply-connected two-dimensional region. The problem is solved by the method of Fourier transforms of type

 $\widetilde{U}(r, p) = \frac{1}{\sqrt{2\pi}} \int_{\Gamma} U(r, t) e^{tpt} dt,$

where U(r, t) is the displacement vector. The original non-stationary problem is reduced (by a well-known method) to a stationary diffraction-problem which consists in finding the solutions of a system of partial differential equations with given boundary conditions. It is shown that the solution to the stationary problem should be sought among the class of functions which can be contin-Card 1/5

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On the use of Fourier transforms ...

ued analytically into the half-plane Imp $\rightarrow \beta$ and vanish for p $\rightarrow \infty$ Expressed by such a function, the solution to the stationary problem is unique, yielding, after use of the inverse Fourier transform the solution to the original problem. In addition, it is shown that the solution to the stationary problem (in the indicated class of functions), is equivalent to solving the problem in a class of functions which satisfy for $r \rightarrow \infty$ Sommerfeld's radiation conditions for the corresponding potentials $\varphi(r, p)$ and $\varphi(r, p)$. The solution is sought of the system of equations

 $(\lambda + 2\mu)\Delta\varphi = \rho \frac{\delta^2\varphi}{\delta t^2}$ (1.1)

with initial conditions

$$\mu \Delta \Psi = \rho \frac{\partial^2 \psi}{\partial t^2} \tag{1.2}$$

and given boundary conditions. Let ϕ and ψ be the solution to the problem, having a Fourier transform of type

Card 2/5

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$$\widetilde{\varphi}(r, p) = \frac{1}{\sqrt{2\pi}} \int_{r}^{\infty} \varphi(r, t) e^{ipt} dt; \ \widetilde{\varphi}(r, p) = \frac{1}{\sqrt{2\pi}} \int_{r}^{\infty} \varphi(r, t) e^{ipt} dt, \tag{1.4}$$

where $p = \alpha + i\beta$. For $\tilde{\gamma}$ and $\tilde{\psi}$ one obtains the system of equations $(\lambda + 2\mu)\Delta \tilde{\varphi} + \rho p^2 \tilde{\varphi} = 0$, $\mu \Delta \tilde{\psi} + \rho p^2 \tilde{\psi} = 0$ (1.6)

for $(x, y) \in G$ and the boundary conditions

$$\left[\lambda \Delta \widetilde{\varphi} + 2\mu \frac{\partial}{\partial z} \left(\frac{\partial \widetilde{\varphi}}{\partial z} + \frac{\partial \widetilde{\varphi}}{\partial y} \right) \right] \cos nz + \mu \left[\frac{\partial \widetilde{\varphi}}{\partial y} + 2 \frac{\partial \widetilde{\varphi}}{\partial z \partial y} - \frac{\partial \widetilde{\varphi}}{\partial z} \right] \cos ny = \widetilde{\mathfrak{e}}(z, p), \tag{1.7}$$

 $\mu \left[\frac{\partial \widetilde{\phi}}{\partial s^2} + 2 \frac{\partial \widetilde{\phi}}{\partial s \partial y} - \frac{\partial \widetilde{\phi}}{\partial z^2} \right] \cos nz + \left[\lambda \Delta \widetilde{\phi} + 2 \mu \frac{\partial}{\partial y} \left(\frac{\partial \widetilde{\phi}}{\partial y} - \frac{\partial \widetilde{\phi}}{\partial z} \right) \right] \cos ny = \widetilde{\delta}(s, p)$

for $(x, y) \in \Gamma$. (G is the exterior region with boundary Γ). The desired solutions to Problem (1.6)-(1.7) should be sought among the functions which can be continued analytically in the half-plane Imp $> \beta$ and vanish for $p \to \infty$. The problem of finding the functions G and T, satisfying Eqs. (1.6) (1.7) is called the stationary diffraction-problem. Further, asymptotic formulas are derived (for Card 3/5

S/208/62/002/001/006/016

On the use of Fourier transforms ... D299/D303

large r), which are satisfied by the solutions to problem (1.6)
(1.7), analytically continuable as indicated above. The asymptotic formulas are $\psi(r,p) = e^{\alpha_r O(r^{-4r})}, \quad \psi(r,p) = e^{\alpha_r O(r^{-4r})}.$ where $\lambda_1 = \sqrt{\frac{p}{1+2r}}p, \quad \lambda_2 = \sqrt{\frac{p}{p}}p. \qquad (2.10)$ and $\frac{\partial \dot{q}}{\partial r} - 1\lambda_1 \ddot{q} = e^{-1}O(r^{-1/2}), \quad \frac{\partial \dot{q}}{\partial r} - 1\lambda_2 \ddot{q} = e^{-1}\lambda_2 r \qquad (2.11)$ Conditions $\psi(r,p) = e^{-1/2}(r^{-1/2}), \quad \psi(r,p) = e^{-1/2}(r^{-1/2})$ and (2.11) are called Sommerfeld's radiation conditions. Pinally, the uniqueness is proved of the solutions to problem (1.6)-(1.7) under conditions (above) and (2.11). These conditions indicate the Card 4/5

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S/558/61/000/007/004/008 D299/D304

AUTHOR:

Klabukova, L.S.

TITLE:

On an approximate method of solving the Riemann-Hil-

bert problem in a multiply-connected region

SOURCE:

Akademiya nauk SSSR. Vychislitel'nyy tsentr. Vychis-Litel'naya matematika, no. 7, 1961, 115 - 132

TEXT: A difference method is proposed for solving the Riemann-Hilbert problem. This problem consists in determining the function P(z) + u + iv, H_0 -holomorphic in the region G, and which satisfies on the boundary P the condition

 $\alpha(s)u + \beta(s)v = \gamma(s). \tag{1}$

The index n of the problem is defined as the sum $n = n_0 + n_1 + \cdots + n_m$, where n_i is related to the argument of the vector $\alpha + i\beta$. Instead of F(z), one considers f(z), satisfying the boundary conditions

Card 1/5

5/558/61/000/007/004/008 D299/D304 On an approximate method of ... $Re[z e^{-n-ic}k_{f(z)}] = c(s) (on \Gamma_k) (k = 0,1,...,m; c_0 = 0).(9)$ The cases n + 1 > m, and n + 1 - m, are considered separately. The case n + 1 > m: The function f(z) is expressed by $f(z) = (a_0 + ib_0) + (a_1 + ib_1)z + \dots + z^{n-1}(a_{n-1} + ib_{n-1}) + z^n \varphi(z),$ where ak + ibk are constants. The problem reduces to determining the general solution $\varphi(z) = u + iv$, of (26)Re $\varphi(z) = T(s)$ (on Γ). Hence the solution of the Riemann-Hilbert problem involves the solution of the following 2 boundary-value problems: I) Dirichlet's = $\omega(s)$, Re $g(z)|_{k} = \omega(s) + c_{k} (k = 1, 2, ..., m)$ problem: Re g(z) and II) Von-Neumann's problem: Card 2/5

S/558/61/000/007/004/008 D299/D304

Un an approximate method of ...

$$\triangle u = 0 \text{ in } G$$

$$u(s)|_{\Gamma_{A}} = \psi(s) \quad (k = 0, 1, ..., p).$$

$$\frac{\partial u}{\partial n} + \gamma_{A} \frac{\partial u}{\partial s}|_{\Gamma_{A}} = \frac{\partial \psi}{\partial s} \quad (k = p + 1, ..., m)$$

$$\triangle f = 0 \text{ in } G$$

$$\frac{\partial v}{\partial n}|_{\Gamma_{A}} = -\frac{\partial \psi}{\partial s} \quad (k = 0, 1, ..., p).$$

$$\gamma_{A} \frac{\partial v}{\partial m} - \frac{\partial v}{\partial s}|_{\Gamma_{A}} = -\frac{\partial \psi}{\partial s} \quad (k = p + 1, ..., m).$$

$$(290)$$

These problems are solved by difference methods. In the case of problem I, the region G is covered by a grid with mesh size h; Laplace's equation is replaced by the difference equation

$$l_1(u_0) = \frac{1+\beta_2}{2\beta_1}(u_0-u_1) + \frac{1+\beta_1}{2\beta_2}(u_0-u_2) + \frac{1+\beta_2}{2}(u_0-u_2) + \frac{1+\beta_2}{2}(u_0-u_2) + \frac{1+\beta_2}{2}(u_0-u_2) = 0.$$
(33)

The functions u(x, y) and v(x, y), satisfying the boundary condi-

5/558/61/000/007/004/008 D299/D304

On an approximate method of ...

tions (in which the integrals have been replaced by sums), are found. Then the difference equations are set up for problem II. The approximation error in the solution of problem I, is of the order of $O(h^2)$; that of problem II is $\approx O(h^{1/2})$. Now the Riemann-Hilbert problem is solved as follows: 1) g(z) is determined (by solving (29a)); c(s) is found by means of formula

 $c(s) = \gamma_0(s)e^{-\operatorname{Im} g(z)}.$ (51a)

The function $\varphi(z) = u + iv$ is determined, u(x, y) and v(x, y) being harmonic functions in G (u and v are the solutions of (29b) and (29c), respectively). 3) The coefficients a and b are determined by the condition that $\varphi(z)$ is a holomorphic function; a system of m algebraic equations with 2n+1 unknowns, is obtained; hence 2n+1-m coefficients, entering the general solution of the Riemann-Hilbert problem, have yet to be determined. In case n+1 = m, one considers instead of f(z), the function

 $f_0(z) = f(z)z^{m-n}.$ (52)

Card 4/5

On an approximate method of ...

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with boundary condition

$$\text{Re}[z^{-m}f_0(z)e^{ic_k}] = c(s) \text{ (on } \Gamma_k) \text{ (k = 0, 1, ..., m).}$$
 (53)

This problem can be solved by the same method as above. The fundamental system of solutions of the homogeneous problem is

$$f_{ol}(z) = \sum_{k=0}^{m-1} (a_k^1 + ib_k^1) z^k + z^m \varphi_{ol}(z) (1 = 1, 2, ..., m+1).$$
 (55)

There are 8 figures and 2 Soviet-bloc references.

Card 5/5

Approximate method of solution of the Riemann-Hilbert problem in a multiply connected region. Vych.mat. no.7:115-132 '61. (MIRA 15:4)	
(Boundary value problems) (Differential equations)	

s/044/62/000/012/036/049 _a060/a000

AUTHOR:

Klabukova, L. S.

TITLE:

On an approximate method for the solution of the Riemann-Hilbert problem in a multiply-connected domain

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 12, 1962, 33, abstract 12V169 (Vychial. matematika, coll. 7, 1961, 115 - 132)

TEXT: Using the method of grids, the author constructs an approximate solution of the Riemann-Hilbert problem in a multiply-connected domain. On the assumption that the requisite solution is four times continuously differentiable in the specified domain, the author proposes finite difference schemes yielding a mean square error of the requisite solution of the order of his, where h is the grid interval.

Ye. A. Volkov

[Abstracter's note: Complete translation]

Card 1/1

KLABUKOVA

48-5-14/56

SUBJECT:

USSR/Luminescence

AUTHOR:

Klabukova Z.I.

TITLE

Some Regularities in Cathodoluminescence Spectra of Luminophores (Nekotoryye sakonomernosti v spektrakh katodolyuminestsentsii lyuminoforov)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol 21, #5, p 670 (USSR)

ABSTRACT:

1. The spectra of luminophores (Zn,Cd)S and (Zn,Cd)S-Ag at an intensive excitation by the electronic beam are bands with one peak;

2. When silver is introduced, the position of the peak shifts towards shorter wavelengths. The maximum shift takes place at the silver content of lx10-4g per 1 g of the basic substance, independently of the CdS content.

3. At a further increase of silver content the spectral

peak shifts towards longer wavelengths.

4. The magnitude of the peak shift with silver introduction abruptly changes with the transition from 10 % of CdS content to 20 % and higher.

Card 1/2

48-5-14/56

TITLE:

Some Regularities in Cathodoluminescence Spectra of Luminophores (Nekotoryye Zakonomernosti v spektrakh katodolyuminestsentsii lyuminoforov).

5. The phenomenon of shifting the spectral peak into the long wavelength region at the increase of silver concentration beyond lxl0-4 g/g is caused on the one side, by a dissociation of the homogeneous luminophore into conjugated mutuallytion of the homogeneous luminophore into conjugated mutually-saturated sulfide phases and arising Zn-centers, and on the other side, by the self-absorption of luminescence.

6. Investigation of the spectra of (Zn,Cd)S-Ag luminophores makes it possible to discover both interrelations of activators in a homogeneous medium and the effect of phase transitions in the basic substance.

One Russian reference is cited.

INSTITUTION: Not indicated.

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress

Card 2/2

20819

8/048/61/025/003/007/047 B104/B201

9,4150 (1137,1138,1395 also)

AUTHORS:

Klabukova, Z.I., and Morozova, A.Y.

TITLE

Cathodoluminophores with very short afterglow and an emission

in the blue, yellow, and red spectral regions

PERIODICAL: Investiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25, no. 3, 1961, 330 - 331

TEXT: This is a regraduction of a lecture delivered at the 9th Conference on Luminescence (Crystal Phosphors), which took place in Kiyev from June 20 to 25, 1960. During the production of CdS-Ag and ZnSe-AgBi luminophores from various sets of initial products the authors established in a number of cases the absence of reproducibility of luminescence properties. Laboratory samples and initial products of the firm "Krasnyy Khimik" with the classification "for luminophores" were used. All CdS sets were obtained by precipitation with hydrogen sulfide from CdSO4 solutions, and ZnSe by the reaction 2nS + SeO2. The mixture was sintered in the gaseous atmosphere of a furnace chamber for one hour at 600°C in the case of CdS-Ag, Card 1/3

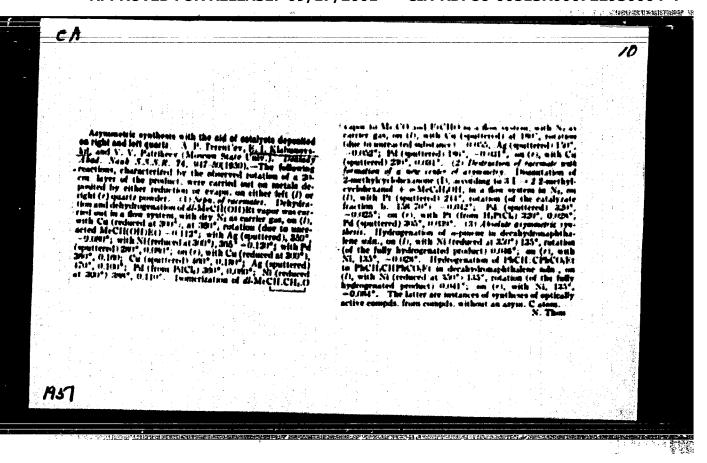
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Cathodoluminophores with

and for 1/2 hour at 900°C in the case of ZnSe-Ag. Ni. A shift from Nex - 7400 - 7200 A to 6900 A with an increase of brightness at the same time was established for CdS-Ag luminophores. A closer study showed that the structure of CdS (as received) was not uniform (sphalerite, greenockite) As for the ZnSe-Ag-Ni luminophores, there was no reproducibility as regards spectrum, brightness, afterglow time, and thermal stability. Among all of the sets of ZnSe that were received, only two types of self-activated ZnSe(NaO1) luminophores were found with a A max - 6400 a and 6100 A. One ZnSe set only was found to be suited for bringing about a thermal stability of the ZnSe-Ag, Ni cathodoluminophore with a very short afterglow (about 2.10-5 seconds). Two groups of ZnSe-Ag, Ni luminophores are indicated. Group A proved to be considerably more stable than group B to the introduction of Ag, heating in the air, heating in vacuum, and to changes in the excitation conditions with respect to its luminescence properties. The sets of ZnSe used by the authors were found to exhibit equal crystal structure (sphalerite); they differ, however, as to their Se content which still contains a ZnSe impurity. Elementary Se affects the formation

Card 2/3



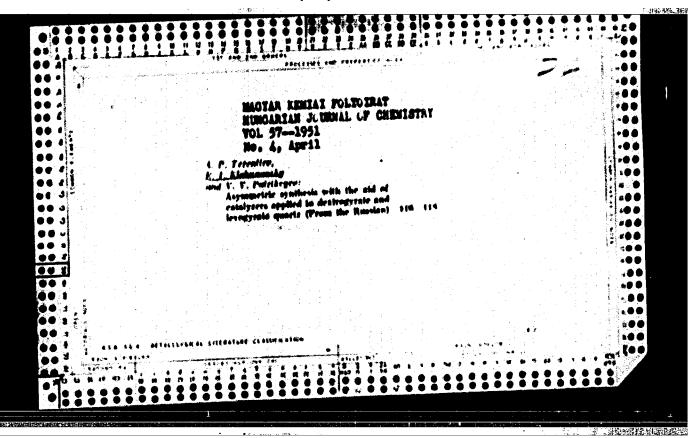
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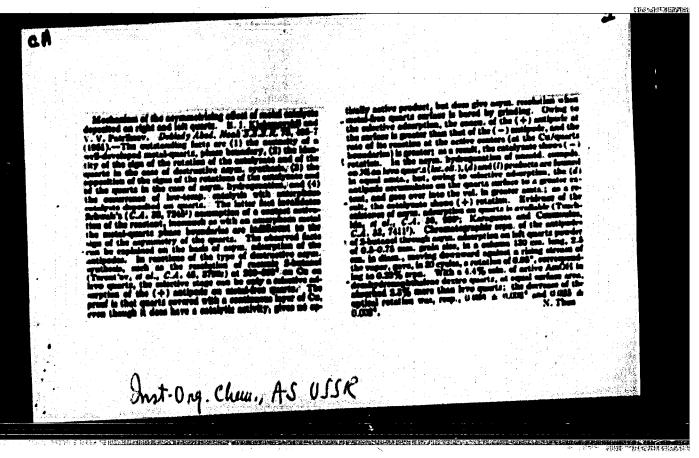
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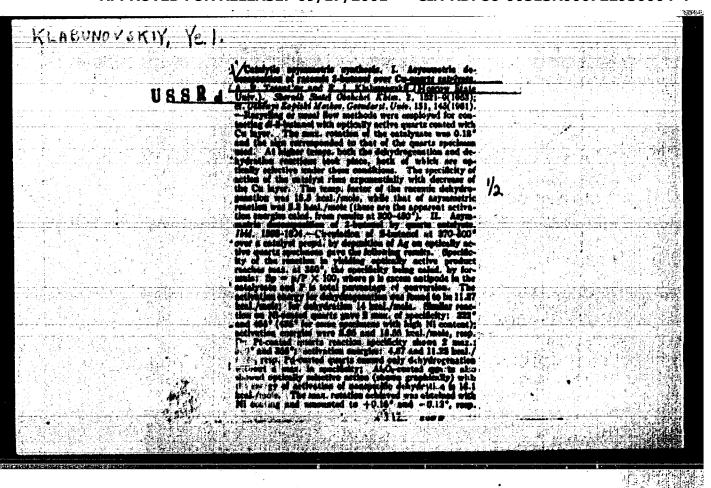
"Asymmetric Synthesis With the Aid of Catalysts on the Base of Optically Active Quartz." Sub 5 Jan 51, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

50: Sum. No. 480, 9 May 55







KLAVUNOVSKIY, YE. I., TERENT'YEV, A. P.

Catalytic Asymmetrical Synthesis. II. Asymmetraical Decomposition of Butanol-2 by Quartz Catalysts, page 1598, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol. II, Moscow-Leningrad, 1953, pages 1680-1686.

Laboratory of Organic Chemistry imeni Acad, N. D. Zelinskiy, Moscow State U

KLABUNOVSKIY, YE. I.; TERENT'TEV, A. P.

Catalytic Absolute Asymmetrical Synthesis. III. Reactions of Isomerisation, Dismutation and Hydrogenation, page 1605, Sbornik statey po obshchey khimii, (Collection of Papers on General Chemistry), Vol. II, Moscow-Leningrad, 1953, pages 1680-1686.

Laboratory of Organic Chemistry imeni Acad., H. D. Zelinskiy, Moscow State U

KLABUNOVSKIY, YE. I.; TERENT'YEV, A. P.; BUDOVSKIY, E. I.

Catalytic Absolute Asymmetrical Synthesis. IV. Cyanoethylation of Cyclohexanone and 1-Hethyl Cyclohexanone-2, page 1612, Sbornik Statey po obshchey khimii, (Collection of Papers on General Chemistry), Vol. II, Moscow-Leningrad, 1953, pages 1680-1686.

Laboratory of Organic Chemistry imeni Acad.; N. D. Zelinskiy, Moscow State U

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KINDUNOUSKIY, E.I.

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Balandin, A. A., Academician, and Klabumovskiy, E. I.

| Kinetics of butanol-2 denydrogenation over mickel

Periodical : Dok. AN 858R 98/5; 783-786, Oct 11, 1954

The kinetics of buttheless deliverogenation over mickel was investigated in a vaporous phase of a lowing system. The rate constants were determined from the general kinetic douation of the catalytic sone-solscular reactions countries in the flow. Equations determining the relative adsorption coefficient change in free energy and entropy during the adsorption on catalytically sometive centers at inclined. The heats of adsorption displacement were found to be very high and exceed the activation energy. The actual hydrogenetics activation energy for butanol-2 is presented in a table. Eleven references a passet of large the content of the basis of the content of the basis of the content of t Abstract

Institution : Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Submitted : July 29, 1954

KLABUMOVSKIY, Te.I.

Contemporary state of catalysis and theoretical foundations of catalyst research; lectrue of Academician A.A. Balandin at the General Session of the Department of Chemical Sciences of the Academy of Sciences of the U.S.S.R., March 30th, 1955. Zhur. fis.khim. 29 no.7:1349-1352 Jl '55. (MLRA 9:3) (Catalysis) (Balandin, A.A.)

USSE/Openistry - Isomere separation |

Card 1/1 | Pub 66 - 11/35 |

Authors | | Elabumovskity E. I., Cand. Chem. Soi.

Title | The collulose of paper - an optically active adsorbent

Periodical | Priceds 44/2, 88 - 89, Pab 1955

Abstract | The partial separation of recemic mixtures into optical isomeres with the aid of chromography is discussed. The results of the experiments of chemists in various countries are cited to show that an optically active solvent should not be used to obtain best results. Among these chemists was the Japanese, W. Manamere, who found that recemic arountic eming acid can be separated on paper with an imactive solvent (a mixture of butyl alcohol, sectic seid and 1-methyl-2-phenylisopropylamine). Four references: 1 USSR, Il Japanese | 1 German) and 1 USA (1931 - 1955).

Institution: The Acad. of So., USSR, Institute of Org. Chem.

Submitted |

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